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3	L3	qualcomm.asn.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:20	7690

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4	L4	L1 and L2 and L3	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:20	0
5	L5	L1 and L2	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:20	1
6	L6	380/270.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:21	836

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7	L7	380/247.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:21	329
8	L8	380/28.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:21	1420
9	L9	713/151.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:21	458

	L #	Search Text	DBs	Time Stamp	Hits
10	L10	713/164.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:23	432
11	L11	713/165.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:23	662
12	L12	380/270.ccls. and (accelerating) near (function)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:24	0

	L #	Search Text	DBs	Time Stamp	Hits
13	L13	380/247.ccls. and (accelerating) near (function)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:24	0
14	L14	380/28.ccls. and (accelerating) near (function)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:24	0
15	L15	713/151.ccls. and (accelerating) near (function)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:24	1

	L #	Search Text	DBs	Time Stamp	Hits
16	L16	713/164.ccls. and (accelerating) near (function)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:24	0
17	L17	713/165.ccls. and (accelerating) near (function) ,	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:24	0
18	L18	(accelerating) near (function)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:25	1356

	L #	Search Text	DBs	Time Stamp	Hits
19	L19	(accelerating) near (function) near (software) near (application)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:25	0
20	L20	(software) near (application) near (multi) near (layer)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:25	1
21	L21	(multi-layer) near (protocol) near (voice data)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:25	2

	L #	Search Text	DBs	Time Stamp	Hits
22	L22	(software) near (application) and (complex layers)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:26	46640
23	L23	L21 and L22	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:26	0
24	L24	L18 and L22	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:26	16



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25	L25	L24 and (memory) near (processor) near (commands)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:26	0
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27	L27	L24 and (multi-layer) near (security) near (protocol)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/07/23 02:27	0
28	L28	(biometric or fingerprint\$3) with (password or "pin" or passphrase or passcode)	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2007/07/23 02:28	6300

	L #	Search Text	DBs	Time Stamp	Hits
29	L29	L21 and (biometric or fingerprint\$3) with (password or "pin" or passphrase or passcode)	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2007/07/23 02:28	0
30	L30	(voice data) same strong adj3 (password or "pin" or passphrase or passcode)	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2007/07/23 02:28	81
31	L31	L30 and L24	US- PGPUB; USPAT; EPO; JPO; DERWEN T	2007/07/23 02:28	0

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38	L38	mobile AND device AND accelerating AND functioning AND multi-layer AND processor AND complex AND layers AND high AND performance AND memory AND command AND security AND mathematical AND algorithm AND digital AND signal AND processor.CLM.	US- PGPUB	2007/07/23 02:39	1
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40	L40	mobile AND device AND accelerating AND functioning AND multi-layer AND processor AND complex AND layers AND high AND performance AND memory AND command AND security AND mathematical AND algorithm AND digital AND signal AND processor AND modular AND math AND exponentiation.CLM.	US- PGPUB	2007/07/23 02:39	1

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41	L41	mobile AND device AND accelerating AND functioning AND multi-layer AND processor AND complex AND layers AND high AND performance AND memory AND command AND security AND mathematical AND algorithm AND digital AND signal AND processor AND modular AND math AND exponentiation AND shared AND interrupt.CLM.	US- PGPUB	2007/07/23 02:39	1

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### 1 [Commercially viable active networking](#)



Stuart Eichert, Osman N. Ertugay, Dan Nessett, Suresh Vobbilisetty

January 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 1

**Publisher:** ACM Press

Full text available: [pdf\(1.52 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Active Networking is a new technology receiving significant attention from the research community. To this point, however, it has not been examined from the perspective of commercial viability. This paper presents an analysis of active networking issues with a view to its possible uses in a commercial environment. It then describes a prototype system built to address these issues.

### 2 [Session 31: secure systems: Software architecture exploration for high-performance security processing on a multiprocessor mobile SoC](#)



Divya Arora, Anand Raghunathan, Srivaths Ravi, Murugan Sankaradass, Niraj K. Jha, Srimat T. Chakradhar

July 2006 **Proceedings of the 43rd annual conference on Design automation DAC '06**

**Publisher:** ACM Press

Full text available: [pdf\(680.39 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a systematic methodology for exploring the security processing software architecture for a commercial heterogeneous multiprocessor system-on-chip (SoC) for mobile devices. The SoC contains multiple host processors executing applications and a dedicated programmable security processing engine. We developed an exploration methodology to map the code and data of security software libraries onto the platform, with the objective of maximizing the overall application-visible performance. Th ...

**Keywords:** computation offloading, software partitioning

### 3 [Security on FPGAs: State-of-the-art implementations and attacks](#)



Thomas Wollinger, Jorge Guajardo, Christof Paar

August 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(296.79 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the last decade, it has become apparent that embedded systems are integral parts of our every day lives. The wireless nature of many embedded applications as well as their omnipresence has made the need for security and privacy preserving mechanisms particularly important. Thus, as field programmable gate arrays (FPGAs) become integral parts of embedded systems, it is imperative to consider their security as a whole. This contribution provides a state-of-the-art description of security issues ...

**Keywords:** Cryptography, FPGA, attacks, cryptographic applications, reconfigurable hardware, reverse engineering, security

#### 4 Conference abstracts



January 1977 **Proceedings of the 5th annual ACM computer science conference CSC '77**

**Publisher:** ACM Press

Full text available: pdf(3.14 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

One problem in computer program testing arises when errors are found and corrected after a portion of the tests have run properly. How can it be shown that a fix to one area of the code does not adversely affect the execution of another area? What is needed is a quantitative method for assuring that new program modifications do not introduce new errors into the code. This model considers the retest philosophy that every program instruction that could possibly be reached and tested from the ...

#### 5 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!,



Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

**Publisher:** ACM Press

Full text available: pdf(6.19 MB) Additional Information: [full citation](#), [index terms](#)

#### 6 Multimedia services: Seeking VoIP QoS in physical space



Robert A. Malaney, Ernesto Exposito, Xun Wei

September 2005 **Proceedings of the 3rd ACM international workshop on Wireless mobile applications and services on WLAN hotspots WMASH '05**

**Publisher:** ACM Press

Full text available: pdf(1.35 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this report we introduce a "QoS Seeker" system for VoIP over 802.11b. QoS Seeker addresses the realistic situation where the QoS delivered to an end user's wireless VoIP application is a complex function of location and time. It attempts to dynamically inform the user of the location he should go to in order to obtain the optimal QoS for the current VoIP connection. To achieve its goals QoS Seeker continuously collects position information and VoIP QoS metrics - such as packet loss, packet de ...

**Keywords:** location, voice over IP, wireless networks

#### 7 Wireless monitoring and denial of service: Channel surfing and spatial retreats: defenses against wireless denial of service




Wenyuan Xu, Timothy Wood, Wade Trappe, Yanyong Zhang

October 2004 **Proceedings of the 2004 ACM workshop on Wireless security WiSe '04**

**Publisher:** ACM Press

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

Full text available:  [pdf\(327.10 KB\)](#)

[terms](#)

Wireless networks are built upon a shared medium that makes it easy for adversaries to launch denial of service (DoS) attacks. One form of denial of service is targeted at preventing sources from communicating. These attacks can be easily accomplished by an adversary by either bypassing MAC-layer protocols, or emitting a radio signal targeted at jamming a particular channel. In this paper we present two strategies that may be employed by wireless devices to evade a MAC/PHY-layer jamming-style wi ...

**Keywords:** CSMA, Jamming, denial of service

## 8 A comparison of MANETs and WMNs: commercial feasibility of community wireless networks and MANETs



Sahibzada Ali Mahmud, Shahbaz Khan, Shoaib Khan, Hamed Al-Raweshidy

September 2006 **Proceedings of the 1st international conference on Access networks AcessNets '06**

**Publisher:** ACM Press

Full text available:  [pdf\(125.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the past a lot of effort has been put into resolving some of the major challenges of AdHoc networks especially the added ones brought up by the mobility of nodes and the absence of infrastructure in MANETs. Unlike MANETs, Wireless Mesh Networks (WMNs) provide flexibility in terms of mobility i.e. Mesh clients can be stationary or mobile and can form a client mesh network among themselves and with mesh routers. WMNs make use of multiple radios and multiple channels per radio for increased capa ...

**Keywords:** community wireless networks, mobile ad-hoc networks, wireless mesh networks

## 9 Survey of recent operating systems research, designs and implementations



C. Mohan

January 1978 **ACM SIGOPS Operating Systems Review**, Volume 12 Issue 1

**Publisher:** ACM Press

Full text available:  [pdf\(2.54 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

## 10 Networking: A unifying link abstraction for wireless sensor networks



Joseph Polastre, Jonathan Hui, Philip Levis, Jerry Zhao, David Culler, Scott Shenker, Ion Stoica

November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**

**Publisher:** ACM Press

Full text available:  [pdf\(456.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Recent technological advances and the continuing quest for greater efficiency have led to an explosion of link and network protocols for wireless sensor networks. These protocols embody very different assumptions about network stack composition and, as such, have limited interoperability. It has been suggested [3] that, in principle, wireless sensor networks would benefit from a unifying abstraction (or "narrow waist" in architectural terms), and that this abstraction should be closer to the lin ...

**Keywords:** link protocols, network abstractions, network protocols, protocol architecture, wireless sensor networks

11 Understanding fault-tolerant distributed systems



Flavin Cristian

February 1991 **Communications of the ACM**, Volume 34 Issue 2

**Publisher:** ACM Press

Full text available: pdf(6.17 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

12 Very high-speed communication in large MIMD supercomputers



W. K. Giloi, W. Schroeder-Preikschat

June 1989 **Proceedings of the 3rd international conference on Supercomputing ICS '89**

**Publisher:** ACM Press

Full text available: pdf(1.22 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The next generation of supercomputers will be largely parallel MIMD architectures, ranging in peak performance from 10 to 100 GFLOPS in the mid nineties to 1000 GFLOPS in the late nineties. Largely parallel means that such a system will consist of hundreds or thousands of processing nodes (PN), and each PN will have a peak performance of several hundred MFLOPS. Obtaining such an extremely high performance is not only an issue of appropriate node architecture but requires al ...

13 Experimental testbeds and data: Performance optimizations for wireless wide-area networks: comparative study and experimental evaluation



Rajiv Chakravorty, Suman Banerjee, Pablo Rodriguez, Julian Chesterfield, Ian Pratt

September 2004 **Proceedings of the 10th annual international conference on Mobile computing and networking MobiCom '04**

**Publisher:** ACM Press

Full text available: pdf(262.46 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a comparative performance study of a wide selection of optimization techniques to enhance application performance in the context of wide-area wireless networks (WWANs). Unlike in traditional wired and wireless IP-based networks, applications running over WWAN cellular environments are significantly affected by the vagaries of the cellular wireless medium. Prior research has proposed and analyzed optimizations at individual layers of the protocol stack. In contrast, we introduce the fi ...

**Keywords:** 3G, CDMA 2000, GPRS, HTTP, TCP, UMTS, cellular, cross-layer interactions, multi-layer performance optimizations, proxy

14 Novel interfaces: Display-agnostic hypermedia



Unmil P. Karadkar, Richard Furuta, Selen Ustun, YoungJoo Park, Jin-Cheon Na, Vivek Gupta, Tolga Ciftci, Yungah Park

August 2004 **Proceedings of the fifteenth ACM conference on Hypertext and hypermedia HYPERTEXT '04**

**Publisher:** ACM Press

Full text available: pdf(551.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the diversifying information environment, contemporary hypermedia authoring and filtering mechanisms cater to specific devices. Display-agnostic hypermedia can be flexibly

and efficiently presented on a variety of information devices without any modification of their information content. We augment context-aware Trellis (caT) by introducing two mechanisms to support display-agnosticism: development of new browsers and architectural enhancements. We present browsers that reinterpret existing c ...

**Keywords:** context-aware trellis (caT), display-agnostic hypermedia, multi-device integrated dynamic activity spaces (MIDAS)

15 Architecture exploration: A unified hardware/software runtime environment for FPGA-based reconfigurable computers using BORPH



Hayden Kwok-Hay So, Artem Tkachenko, Robert Brodersen

October 2006 **Proceedings of the 4th international conference on Hardware/software codesign and system synthesis CODES+ISSS '06**

**Publisher:** ACM Press

Full text available: [pdf\(194.61 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a hw/sw codesign methodology based on BORPH, an operating system designed for FPGA-based reconfigurable computers (RC's). By providing native kernel support for FPGA hardware, BORPH offers a homogeneous UNIX interface for both software and hardware processes. Hardware processes inherit the same level of service from the kernel, such as file system support, as typical UNIX software processes. Hardware and software components of a design therefore run as hardware and software P ...

**Keywords:** hardware process, reconfigurable computers

16 Mu3D: a causal consistency protocol for a collaborative VRML editor



Ricardo Galli, Yuhua Luo

February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML) VRML '00**

**Publisher:** ACM Press

Full text available: [pdf\(614.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the implementation of the Mu3D application protocol and consistency control mechanisms to allow the collaborative editing of CAD design. The collaborative editor (M3D editor) developed by us is VRML compliant. The editor has been used as a base for the European Esprit project No. 26287 - M3D and the Spanish project TEL 96-0544/CODI for Cooperative CAD applications. In our system, only the changes to local databases are transmitted to other collaborative sessions ...

**Keywords:** CAD, VRML, architecture, distributed virtual environments, multicasting

17 Transport Layer Issues: TCP/IP performance over 3G wireless links with rate and delay variation



Mun Choon Chan, Ramachandran Ramjee

September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking MobiCom '02**

**Publisher:** ACM Press

Full text available: [pdf\(317.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless link losses result in poor TCP throughput since losses are perceived as congestion by TCP, resulting in source throttling. In order to mitigate this effect, 3G wireless link

designers have augmented their system with extensive local retransmission mechanisms. In addition, in order to increase throughput, intelligent channel state based scheduling have also been introduced. While these mechanisms have reduced the impact of losses on TCP throughput and improved the channel utilization, th ...

**Keywords:** 3G wireless, TCP, link and rate variation

18 TCP/IP Performance over 3G wireless links with rate and delay variation

Mun Choon Chan, Ramachandran Ramjee

January 2005 **Wireless Networks**, Volume 11 Issue 1-2


**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(456.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless link losses result in poor TCP throughput since losses are perceived as congestion by TCP, resulting in source throttling. In order to mitigate this effect, 3G wireless link designers have augmented their system with extensive local retransmission mechanisms. In addition, in order to increase throughput, intelligent channel state based scheduling have also been introduced. While these mechanisms have reduced the impact of losses on TCP throughput and improved the channel utilization, th ...

**Keywords:** 3G wireless, TCP, ack regulator, link delay and rate variation, throughput model

19 Secure wireless protocols: An authentication framework for hierarchical ad hoc sensor networks

 Mathias Bohge, Wade Trappe

September 2003 **Proceedings of the 2003 ACM workshop on Wireless security WiSe '03**


**Publisher:** ACM Press

Full text available:  pdf(263.78 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent results indicate scalability problems for flat ad hoc networks. To address the issue of scalability, self-organizing hierarchical ad hoc architectures are being investigated. In this paper, we explore the task of providing data and entity authentication for hierarchical ad hoc sensor networks. Our sensor network consists of three tiers of devices with varying levels of computational and communication capabilities. Our lowest tier consists of compute-constrained sensors that are unable to ...

**Keywords:** TESLA, ad hoc networks, authentication, handoff

20 Bibliography of recent publications on computer communication

 David Oran

July 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 3

**Publisher:** ACM Press

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## » Key

IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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